

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

### Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.64	10/14/2015 10/14/2015	Maksim Khashchuk

LM Start		Rating **	A	Issue No.	2
LM End		Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_RD2062_01_f_2013_2				
Action/Comments					
Inspector Comments: The O&M Manual is available at the LMA's office.					

No Photos

LM Start		Rating **	A	Issue No.	5
LM End		Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_RD2062_01_s_2013_5				
Action/Comments					
Inspector Comments: Adequate flood fight supplies are available on-site.					

No Photos

LM Start		Rating **	A	Issue No.	8
LM End		Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_RD2062_01_s_2013_8				
Action/Comments					
Inspector Comments: The LMA has a flood fight emergency response plan.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.64	10/14/2015 10/14/2015	Maksim Khashchuk

LM Start	0.53	Rating **	A	Issue No.	7
LM End	0.53	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.805038 °	37.805038 °
				-121.319932 °	-121.319932 °
DWR ID	DWR_RD2062_01_f_2015_7				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : FA\_2015\_RD2062\_309\_7\_20151026\_00004.jpg



View of the acceptable vegetation control on the waterside levee slope.

LM Start	0.72	Rating **	A/W	Issue No.	6
LM End	0.72	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.805138 °	37.805138 °
				-121.316420 °	-121.316420 °
DWR ID	DWR_RD2062_01_s_2015_6				
Action/Comments					
Add appropriate gravel or road base. Grade and compact. Inspector Comments: New levee patrol road is being installed. Make sure all-weather access is available before next flood season.					

Photo 1 of 1 : FA\_2015\_RD2062\_309\_6\_20150910\_00001.jpg



View of the new patrol road installation in process.

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.64	10/14/2015 10/14/2015	Maksim Khashchuk

LM Start	0.87	Rating **	C	Issue No.	1
LM End	0.87	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.804080 °	37.804080 °
				-121.314060 °	-121.314060 °
DWR ID					

No Photos

Action/Comments					
Inspector Comments: 06/24/2015: No significant change observed. 6/19/2014: No significant change observed. 08/13/2013: This was repaired prior to the boat survey. No new erosion found at the site 08/07/2012: The site has been visited by boat survey. No significant change observed 08/23/2011: No significant change observed at the site. There is vegetation on the slope. There is a bridge construction site just upstream of the erosion. The impact of the construction may need to be monitored. 09/07/2010: No significant change observed on site. Sloughing of the existing rip rap revetment on the lower slope has developed into an erosion pocket. There is moderate annual grass growth on the slope. 08/06/2010: Recommended as local maintenance issue, per CLRO. 03/09/2010: Per Michael Moncrief of MBK, site is scheduled for repair this year. 2009: Landside ground surface has been raised to the height of the levee crown; sloughing of the existing rip rap revetment on the lower slope that has created a pocket, exposing underlying soil; Site # is the same RM54.34, LM1.08; previously rated "M". 2006: Previously marked with stake. [2015 Site ID:RD2062U01RM54.14]					

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.64	10/14/2015 10/14/2015	Maksim Khashchuk

LM Start	1.82	Rating **	C	Issue No.	12
LM End	1.82	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.791798 °	37.791798 °
				-121.312904 °	-121.312904 °
DWR ID	DWR_RD2062_01_s _ 2012_12				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	3.96	10/14/2015 10/14/2015	Maksim Khashchuk

LM Start	1.88	Rating **	A	Issue No.	12
LM End	1.88	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.796022 °	37.796022 °
				-121.358074 °	-121.358074 °
DWR ID	DWR_RD2062_02_f_2015_12				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : FA\_2015\_RD2062\_310\_12\_20151026\_00013.jpg



View of the acceptable vegetation control on the landside levee toe.

LM Start	2.84	Rating **	N	Issue No.	3
LM End	2.84	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.803827 °	37.803827 °
				-121.372424 °	-121.372424 °
DWR ID	DWR_RD2062_02_s_2012_3				
Action/Comments					
Tree stumps.					
Inspector Comments: Three small tree stumps.					

Photo 1 of 1 : FA\_2015\_RD2062\_310\_3\_20150910\_00001.jpg



Three small stumps on levee slope.

LM Start	2.88	Rating **	N	Issue No.	13
LM End	2.88	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.804060 °	37.804060 °
				-121.373245 °	-121.373245 °
DWR ID	DWR_RD2062_02_s_2012_13				
Action/Comments					
Tree stumps.					
Inspector Comments: Four small oak stumps on levee slope.					

Photo 1 of 1 : FA\_2015\_RD2062\_310\_13\_20150910\_00003.jpg



View of tree stumps on waterside slope. 05/17/2012

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	



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### Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	3.96	10/14/2015 10/14/2015	Maksim Khashchuk

LM Start	2.98	Rating **	N	Issue No.	14
LM End	2.98	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.804452 °	37.804452
				-121.374903 °	-121.374903
DWR ID	DWR_RD2062_02_s _ 2012_14				
Action/Comments					
Tree stumps.					

Photo 1 of 1 : FA\_2015\_RD2062\_310\_14\_20150910\_00004.jpg



View of the tree stump in the middle of the photo.

LM Start	3.01	Rating **	N	Issue No.	15
LM End	3.01	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.804481 °	37.804481 °
				-121.375510 °	-121.375510 °
DWR ID	DWR_RD2062_02_s _ 2012_15				
Action/Comments					
Tree stumps.					

Photo 1 of 1 : FA\_2015\_RD2062\_310\_15\_20150910\_00005.jpg



View of the tree stumps on the waterside levee slope.

LM Start	3.64	Rating **	M	Issue No.	8
LM End	3.64	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.806347 °	37.806347 °
				-121.386692 °	-121.386692 °
DWR ID	DWR_RD2062_02_s _ 2014_8				
Action/Comments					
Schedule repair of erosion site prior to the next inspection.					

Photo 1 of 1 : FA\_2015\_RD2062\_310\_8\_20150910\_00002.jpg



View of the erosion from surface runoff on the waterside levee slope.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	3.96	10/14/2015 10/14/2015	Maksim Khashchuk

LM Start	3.76	Rating **	A	Issue No.	11
LM End	3.76	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.806922 °	37.806922 °
				-121.388753 °	-121.388753 °
DWR ID	DWR_RD2062_02_f_2015_11				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : FA\_2015\_RD2062\_310\_11\_20151026\_00012.jpg



View of the acceptable vegetation control on the landside levee slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	10/14/2015 10/14/2015	Maksim Khashchuk

LM Start	0.00	Rating **	U	Issue No.	8
LM End	0.09	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.809673 °	37.809673 °
				-121.390321 °	-121.390321 °
DWR ID					
Action/Comments					
Inspector Comments: 06/25/2015: No significant change observed. 07/02/2014: No significant change observed. 08/13/2013: No significant change observed. 08/07/2012: The site has been visited by boat survey. No significant change observed 08/23/2011: Site is at the upstream of a drainage ditch. [2015 Site ID:RD2062U03RM29.93]					

LM Start	<b>0.00</b>	Rating **	U	Issue No.	<b>8 (cont)</b>
LM End	<b>0.09</b>	Issue Type +	Ma	Location *	WS

LM Start	<b>0.00</b>	Rating **	U	Issue No.	<b>8 (cont)</b>
LM End	<b>0.09</b>	Issue Type +	Ma	Location *	WS

Photo 1 of 3 : SJR2015\_RD2062U03RM29.93\_1.jpg



Front view of the erosion.

Photo 2 of 3 : SJR2015\_RD2062U03RM29.93\_2.jpg



Close view of the erosion.

Photo 3 of 3 : SJR2015\_RD2062U03RM29.93\_3.jpg



Front view of the erosion.

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	10/14/2015 10/14/2015	Maksim Khashchuk

LM Start	0.08	Rating **	N	Issue No.	3
LM End	0.08	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.809727 °	37.809727 °
				-121.389100 °	-121.389100 °
DWR ID	DWR_RD2062_03_f_2012_3				
Action/Comments					
Tree stumps.					

Photo 1 of 1 : FA\_2015\_RD2062\_311\_3\_20150910\_00003.jpg



View of tree stumps on waterside slope.

LM Start	0.10	Rating **	U	Issue No.	9
LM End	0.11	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.810052 °	37.810052 °
				-121.388847 °	-121.388847 °
DWR ID					
Action/Comments					
Inspector Comments: 06/25/2015: No significant change observed. 07/02/2014: No significant change observed. 08/13/2013: No significant change observed. 08/07/2012: The site has been visited by boat survey. No significant change observed 08/23/2011: Hard to view the erosion because of the dense vegetation and trees on site. The site is under the bush, close to the tree. [2015 Site ID:RD2062U03RM30.02]					

Photo 1 of 3 : SJR2015\_RD2062U03RM30.02\_4.jpg



Close view of the site. Note the vegetation.

LM Start	<b>0.10</b>	Rating **	U	Issue No.	<b>9 (cont)</b>
LM End	<b>0.11</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 3 : SJR2015\_RD2062U03RM30.02\_6.jpg



Front view of the site.

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	10/14/2015 10/14/2015	Maksim Khashchuk

LM Start	0.10	Rating **	U	Issue No.	9 (cont)
LM End	0.11	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.810052 °	37.810052 °
				-121.388847 °	-121.388847 °
DWR ID					
Action/Comments					
Inspector Comments: 06/25/2015: No significant change observed. 07/02/2014: No significant change observed. 08/13/2013: No significant change observed. 08/07/2012: The site has been visited by boat survey. No significant change observed 08/23/2011: Hard to view the erosion because of the dense vegetation					

Photo 3 of 3 : SJR2015\_RD2062U03RM30.02\_7.jpg



View of the site from downstream.

LM Start	0.17	Rating **	N	Issue No.	6
LM End	0.17	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.810194 °	37.810194 °
				-121.387602 °	-121.387602 °
DWR ID	DWR_RD2062_03_s _ 2012_6				
Action/Comments					
Tree stumps.					

No Photos

LM Start	0.18	Rating **	M	Issue No.	13
LM End	0.18	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.810468 °	37.810468 °
				-121.387492 °	-121.387492 °
DWR ID					
Action/Comments					
Inspector Comments: 06/25/2015: No significant change observed. 07/02/2014: No significant change observed. 08/13/2013: No significant change observed. 08/07/2012: The site has been visited by boat survey. No significant change observed 08/23/2011: The protection at the levee toe has been washed away. [2015 Site ID:RD2062U03RM30.1]					

Photo 1 of 2 : SJR2015\_RD2062U03RM30.10\_1.jpg



Direct view of the site.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	10/14/2015 10/14/2015	Maksim Khashchuk

LM Start	0.18	Rating **	M	Issue No.	13 (cont)
LM End	0.18	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.810468 °	37.810468 °
				-121.387492 °	-121.387492 °
DWR ID					
Action/Comments					
Inspector Comments: 06/25/2015: No significant change observed. 07/02/2014: No significant change observed. 08/13/2013: No significant change observed. 08/07/2012: The site has been visited by boat survey. No significant change observed 08/23/2011: The protection at the levee toe has been washed away. [2015 Site ID:RD2062U03RM30.1]					

Photo 2 of 2 : SJR2015\_RD2062U03RM30.10\_3.jpg



Close view of the erosion.

LM Start	0.22	Rating **	U	Issue No.	17
LM End	0.31	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.810609 °	37.810609 °
				-121.385879 °	-121.385879 °
DWR ID					
Action/Comments					
Inspector Comments: 06/25/2015: No significant change observed. 07/02/2014: No significant change observed. 08/13/2013: A new pocket erosion at the upper levee slope has been found directly above a large tree. The erosion might have been caused by internal pipe leakage or surface runoff. 08/07/2012: The site has been visited by boat survey. No significant change observed 08/23/2011: No significant change observed on site. Dense vegetation is visible along the water line. 09/07/2010: No significant change observed on site. Much of the upper slope was recently cleared of vegetation by spraying. 4- to 6-foot vertical scarp and pocket erosions are lined along a span of 475 feet. In some sections, the vertical scarp encroaches into the levee prism. There is a lack of berm along this reach, exposing the levee slope to high flow velocities during normal and flood events. 08/06/2010: Recommended as local maintenance issue, per CLRO. 03/09/2010: As discussed with Michael Moncrief of MBK Engineers, the site will be 'addressed' later this year. 09/29/2009: No major change observed since last visit; pocket erosion and a vertical scarp forming; this site was combined with Site RM30.13 and 30.02 with a combined total erosion length of 475 feet; recommended as annual assessment and monitoring of the site, per CLRO CES Evaluation 2008 Report; previously rated "M". 11/05/2008: Top of vertical scarp has rip rap that appears to be sliding; rodent holes; existing toe rip rap. [2015 Site ID:RD2062U03RM30.19]					

Photo 1 of 3 : SJR2015\_RD2062U03RM30.19\_10.jpg



Front view of the existing erosion at the toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Unit No. 03 Old River	Left	5.55	10/14/2015 10/14/2015	Maksim Khashchuk

LM Start	0.22	Rating **	U	Issue No.	17 (cont)
LM End	0.31	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.810609 °	37.810609 °
				-121.385879 °	-121.385879 °
DWR ID					
Action/Comments					
Inspector Comments: 06/25/2015: No significant change observed. 07/02/2014: No significant change observed. 08/13/2013: A new pocket erosion at the upper levee slope has been found directly above a large tree. The erosion might have been caused by internal pipe leakage or surface runoff. 08/07/2012: The site has been visited by boat survey. No significant change observed 08/23/2011: No significant change observed on site. Dense vegetation is visible along the water line. 09/07/2010: No significant change observed on site. Much of the upper slope was recently cleared of vegetation by spraying. 4- to 6-foot vertical scarp and pocket erosions are lined along a span of 475 feet. In some sections, the vertical scarp encroaches into the levee prism. There is a lack of berm along this reach, exposing the levee slope to high flow velocities during normal and flood events. 08/06/2010: Recommended as local maintenance issue, per CLRO. 03/09/2010: As discussed with Michael Moncrief of MBK Engineers, the site will be 'addressed' later this year. 09/29/2009: No major change observed since last visit; pocket erosion and a vertical scarp forming; this site was combined with Site RM30.13 and 30.02 with a combined total erosion length of 475 feet; recommended as annual assessment and monitoring of the site, per CLRO CES Evaluation 2008 Report; previously rated "M". 11/05/2008: Top of vertical scarp has rip rap that appears to be sliding; rodent holes; existing toe rip rap. [2015 Site ID:RD2062U03RM30.19]					

Photo 2 of 3 : SJR2015\_RD2062U03RM30.19\_11.jpg



View of the pocket erosion and the tree.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	10/14/2015 10/14/2015	Maksim Khashchuk

LM Start	0.22	Rating **	U	Issue No.	17 (cont)
LM End	0.31	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.810609 °	37.810609 °
				-121.385879 °	-121.385879 °
DWR ID					
Action/Comments					
Inspector Comments: 06/25/2015: No significant change observed. 07/02/2014: No significant change observed. 08/13/2013: A new pocket erosion at the upper levee slope has been found directly above a large tree. The erosion might have been caused by internal pipe leakage or surface runoff. 08/07/2012: The site has been visited by boat survey. No significant change observed 08/23/2011: No significant change observed on site. Dense vegetation is visible along the water line. 09/07/2010: No significant change observed on site. Much of the upper slope was recently cleared of vegetation by spraying. 4- to 6-foot vertical scarp and pocket erosions are lined along a span of 475 feet. In some sections, the vertical scarp encroaches into the levee prism. There is a lack of berm along this reach, exposing the levee slope to high flow velocities during normal and flood events. 08/06/2010: Recommended as local maintenance issue, per CLRO. 03/09/2010: As discussed with Michael Moncrief of MBK Engineers, the site will be 'addressed' later this year. 09/29/2009: No major change observed since last visit; pocket erosion and a vertical scarp forming; this site was combined with Site RM30.13 and 30.02 with a combined total erosion length of 475 feet; recommended as annual assessment and monitoring of the site, per CLRO CES Evaluation 2008 Report; previously rated "M". 11/05/2008: Top of vertical scarp has rip rap that appears to be sliding; rodent holes; existing toe rip rap. [2015 Site ID:RD2062U03RM30.19]					

Photo 3 of 3 : SJR2015\_RD2062U03RM30.19\_2.jpg



Close view of the pocket erosion.

LM Start	0.35	Rating **	M	Issue No.	1
LM End	0.35	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.811281 °	37.811281 °
				-121.384461 °	-121.384461 °
DWR ID					
Action/Comments					
Inspector Comments: 06/25/2015: No significant change observed. 07/02/2014: No significant change observed. 08/13/2013: No significant change observed. 08/07/2012: The site has been visited by boat survey. No significant change observed 08/23/2011: The site is right at the downstream of a river bend. [2015 Site ID:RD2062U03RM30.27]					

Photo 1 of 2 : SJR2015\_RD2062U03RM30.27\_1.jpg



Front view of the erosion.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

### Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	10/14/2015 10/14/2015	Maksim Khashchuk

LM Start	0.35	Rating **	M	Issue No.	1 (cont)
LM End	0.35	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.811281 °	37.811281 °
				-121.384461 °	-121.384461 °
DWR ID					
Action/Comments					
Inspector Comments: 06/25/2015: No significant change observed. 07/02/2014: No significant change observed. 08/13/2013: No significant change observed. 08/07/2012: The site has been visited by boat survey. No significant change observed 08/23/2011: The site is right at the downstream of a river bend. [2015 Site ID:RD2062U03RM30.27]					

Photo 2 of 2 : SJR2015\_RD2062U03RM30.27\_6.jpg



Close view of the site. Note the piled concrete debris.

LM Start	0.55	Rating **	M	Issue No.	2
LM End	0.56	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.813070 °	37.813070 °
				-121.383100 °	-121.383100 °
DWR ID					
Action/Comments					
Inspector Comments: 06/25/2015: No significant change observed. 07/02/2014: No significant change observed. 08/13/2013: No significant change observed. 08/07/2012: The site has been visited by boat survey. No significant change observed. 08/23/2011: No significant change observed on site. 09/07/2010: No significant change observed on site. Much of the placed rip rap revetment has slid. It is no longer adequately protecting the slope. 08/06/2010: Recommended as local maintenance issue, per CLRO Report. 03/09/2010: As discussed with Michael Moncrief of MBK, site will be 'addressed' this year. 09/29/2009: No major change observed since last visit; a section of the rip rap has slipped, exposing a levee section that has eroded; recommended as local maintenance issue, per CLRO CES Evaluation 2008 Report; Site # is the same as RM30.43, LM0.63; previously rated "U". 11/05/2008: Site is located inside of a bend; scarp looks to be into the levee prism; piles of concrete chunks placed on the slope, with some of them already starting to slide. [2015 Site ID:RD2062U03RM30.43]					

Photo 1 of 3 : SJR2015\_RD2062U03RM30.43\_2.jpg



Front view of the site.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

### Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	10/14/2015 10/14/2015	Maksim Khashchuk

LM Start	0.55	Rating **	M	Issue No.	2 (cont)
LM End	0.56	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.813070 °	37.813070 °
				-121.383100 °	-121.383100 °
DWR ID					

#### Action/Comments

Inspector Comments: 06/25/2015: No significant change observed.  
 07/02/2014: No significant change observed.  
 08/13/2013: No significant change observed.  
 08/07/2012: The site has been visited by boat survey. No significant change observed.  
 08/23/2011: No significant change observed on site.  
 09/07/2010: No significant change observed on site. Much of the placed rip rap revetment has slid. It is no longer adequately protecting the slope.  
 08/06/2010: Recommended as local maintenance issue, per CLRO Report.  
 03/09/2010: As discussed with Michael Moncrief of MBK, site will be 'addressed' this year.  
 09/29/2009: No major change observed since last visit; a section of the rip rap has slipped, exposing a levee section that has eroded; recommended as local maintenance issue, per CLRO CES Evaluation 2008 Report; Site # is the same as RM30.43, LM0.63; previously rated "U".  
 11/05/2008: Site is located inside of a bend; scarp looks to be into the levee prism; piles of concrete chunks placed on the slope, with some of them already starting to slide. [2015 Site ID:RD2062U03RM30.43]

Photo 2 of 3 : SJR2015\_RD2062U03RM30.43\_3.jpg



Front view of the site. Previously placed rip rap slipped, exposing the underlying soils and creating a pocket.

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	10/14/2015 10/14/2015	Maksim Khashchuk

LM Start	0.55	Rating **	M	Issue No.	2 (cont)
LM End	0.56	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.813070 °	37.813070 °
				-121.383100 °	-121.383100 °
DWR ID					
Action/Comments					
Inspector Comments: 06/25/2015: No significant change observed. 07/02/2014: No significant change observed. 08/13/2013: No significant change observed. 08/07/2012: The site has been visited by boat survey. No significant change observed. 08/23/2011: No significant change observed on site. 09/07/2010: No significant change observed on site. Much of the placed rip rap revetment has slid. It is no longer adequately protecting the slope. 08/06/2010: Recommended as local maintenance issue, per CLRO Report. 03/09/2010: As discussed with Michael Moncrief of MBK, site will be 'addressed' this year. 09/29/2009: No major change observed since last visit; a section of the rip rap has slipped, exposing a levee section that has eroded; recommended as local maintenance issue, per CLRO CES Evaluation 2008 Report; Site # is the same as RM30.43, LM0.63; previously rated "U". 11/05/2008: Site is located inside of a bend; scarp looks to be into the levee prism; piles of concrete chunks placed on the slope, with some of them already starting to slide. [2015 Site ID:RD2062U03RM30.43]					

Photo 3 of 3 : SJR2015\_RD2062U03RM30.43\_4.jpg



Front view of the site. Rip rap no longer adequately protecting levee slope.

LM Start	0.61	Rating **	N	Issue No.	10
LM End	0.61	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.813570 °	37.813570 °
				-121.382094 °	-121.382094 °
DWR ID	DWR_RD2062_03_s_2012_10				
Action/Comments					
Tree stumps.					
Inspector Comments: Stump in slope.					

Photo 1 of 1 : FA\_2015\_RD2062\_311\_10\_20150910\_00009.jpg



05/11/2011 Stump in slope, new growth in center of photo is at the location of the stump.

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	10/14/2015 10/14/2015	Maksim Khashchuk

LM Start	0.64	Rating **	N	Issue No.	12
LM End	0.64	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.813894 °	37.813894 °
				-121.381680 °	-121.381680 °
DWR ID	DWR_RD2062_03_s_2012_12				
Action/Comments					
Tree stumps.					
Inspector Comments: 2 stumps on waterside slope.					

Photo 1 of 1 : FA\_2015\_RD2062\_311\_12\_20150910\_00012.jpg



View of the tree stumps on the waterside levee slope.

LM Start	0.81	Rating **	A/W	Issue No.	11
LM End	0.81	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.816315 °	37.816315 °
				-121.381587 °	-121.381587 °
DWR ID	DWR_RD2062_03_s_2012_11				
Action/Comments					
Schedule repair of erosion site prior to the next inspection. Inspector Comments: Cracking developing along the waterside levee hinge.					

Photo 1 of 2 : FA\_2015\_RD2062\_311\_11\_20150910\_00011.jpg



View of slope erosion from foot traffic.

LM Start	<b>0.81</b>	Rating **	A/W	Issue No.	<b>11 (cont)</b>
LM End	<b>0.81</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA\_2015\_RD2062\_311\_11\_20151026\_00028.jpg



View of cracking at waterside levee hinge.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

### Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	10/14/2015 10/14/2015	Maksim Khashchuk

LM Start	1.05	Rating **	M	Issue No.	34
LM End	1.05	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.817897 °	37.817897 °
				-121.378649 °	-121.378649 °
DWR ID	DWR_RD2062_03_f_2015_34				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows.					

Photo 1 of 1 : FA\_2015\_RD2062\_311\_34\_20151026\_00027.jpg



View of the rodent burrows at the landside levee toe.

LM Start	1.18	Rating **	U	Issue No.	4
LM End	1.19	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.819290 °	37.819290 °
				-121.378880 °	-121.378880 °
DWR ID					
Action/Comments					
Inspector Comments: 06/25/2015: No significant change observed. 07/02/2014: No significant change observed. 08/13/2013: No significant change observed. 08/07/2012: The site has been visited by boat survey. No significant change observed 08/23/2011: No significant change observed on site. 09/07/2010: No significant change observed on site. Much of the seasonal grass along the slope was cleared. Site consists of an existing scalloped erosion approximately 30 feet long by 5 feet wide at its widest opening. The lateral crack is extended outwards along the middle slope. There is a 1 to 2 feet of differential settlement that could further develop into a shallow slide. 08/06/2010: Recommended as local maintenance issue, per CLRO. 03/09/2010: As discussed with Michael Moncrief of MBK Engineer, site will be 'addressed' this year. 09/28/2009: No major change observed; section of rip rap has slipped, creating a terraced effect; dense vegetation growth; recommended as a local maintenance issue, per CLRO CES Evaluation 2008 Report; Site # is the same as RM31.12,LM1.25; previously rated "U". 09/14/2006: 1-2' into prism. [2015 Site ID:RD2062U03RM31.12]					

Photo 1 of 2 : SJR2015\_RD2062U03RM31.12\_2.jpg



Close view of the site.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	



**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

### Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	10/14/2015 10/14/2015	Maksim Khashchuk

LM Start	1.18	Rating **	U	Issue No.	4 (cont)	
LM End	1.19	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR Erosion Survey			37.819290 °	37.819290 °	
				-121.378880 °	-121.378880 °	
DWR ID						
Action/Comments						
Inspector Comments: 06/25/2015: No significant change observed. 07/02/2014: No significant change observed. 08/13/2013: No significant change observed. 08/07/2012: The site has been visited by boat survey. No significant change observed 08/23/2011: No significant change observed on site. 09/07/2010: No significant change observed on site. Much of the seasonal grass along the slope was cleared. Site consists of an existing scalloped erosion approximately 30 feet long by 5 feet wide at its widest opening. The lateral crack is extended outwards along the middle slope. There is a 1 to 2 feet of differential settlement that could further develop into a shallow slide. 08/06/2010: Recommended as local maintenance issue, per CLRO. 03/09/2010: As discussed with Michael Moncrief of MBK Engineer, site will be 'addressed' this year. 09/28/2009: No major change observed; section of rip rap has slipped, creating a terraced effect; dense vegetation growth; recommended as a local maintenance issue, per CLRO CES Evaluation 2008 Report; Site # is the same as RM31.12,LM1.25; previously rated "U". 09/14/2006: 1-2' into prism. [2015 Site ID:RD2062U03RM31.12]						

Photo 2 of 2 : SJR2015\_RD2062U03RM31.12\_3.jpg



Front view of the site.

LM Start	1.35	Rating **	A/W	Issue No.	18
LM End	1.35	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.820885 °	37.820885 °
				-121.376986 °	-121.376986 °
DWR ID	DWR_RD2062_03_s_2012_18				
Action/Comments					
Elderberries are blocking visibility and flood fight capability. Inspector Comments: Elderberry bush blocks visibility.					

Photo 1 of 1 : FA\_2015\_RD2062\_311\_18\_20150910\_00015.jpg



05/11/2011 Elderberry bush on water side slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	10/14/2015 10/14/2015	Maksim Khashchuk

LM Start	1.39	Rating **	U	Issue No.	5
LM End	1.40	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.821380 °	37.821380 °
				-121.376900 °	-121.376900 °
DWR ID					

**Action/Comments**

Inspector Comments: 06/25/2015: No significant change observed.  
 07/02/2014: No significant change observed.  
 08/13/2013: No significant change observed.  
 08/07/2012: The site has been visited by boat survey. No significant change observed  
 08/23/2011: No significant change observed on site.  
 09/07/2010: No significant change observed on site. There is a small-to medium sized Oak tree on the mid-slope just above rip rap. Some of the rip rap has collapsed, creating a pocket erosion just above the existing toe rip rap and upstream of the Oak tree.  
 08/06/2010: Recommended as local maintenance issue, per CLRO.  
 03/09/2010: As discussed with Michael Moncrief of MBK Engineer, site will be 'addressed' in 2010.  
 09/29/2009: No major change since last visit; sliding of the rip rap at the base of the lone tree; there is noticeable man-made trail and foot traffic extending from the crown to the toe; much of the broken concrete used as temporary rip rap has slid, exposing portion of the bare levee slope; recommended as local maintenance issue, per CLRO CES Evaluation 2008 Report; Site # is the same as RM31.3, LM1.45; previously rated "M".  
 11/05/2008: Portion of rip rap collapsing.  
 09/14/2006: Portion of rip rap along the slope has collapsed; exposed levee section is starting to erode, exposing roots from the nearby tree.  
 [2015 Site ID:RD2062U03RM31.28]

Photo 1 of 3 : SJR2015\_RD2062U03RM31.28\_11.jpg



Front view of the site. Note existing broken concrete on the upper slope as well as on the lower slope and at the toe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	10/14/2015 10/14/2015	Maksim Khashchuk

LM Start	<b>1.39</b>	Rating **	U	Issue No.	<b>5 (cont)</b>
LM End	<b>1.40</b>	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.821380 °	37.821380 °
				-121.376900 °	-121.376900 °
DWR ID					

**Action/Comments**

Inspector Comments: 06/25/2015: No significant change observed.  
 07/02/2014: No significant change observed.  
 08/13/2013: No significant change observed.  
 08/07/2012: The site has been visited by boat survey. No significant change observed  
 08/23/2011: No significant change observed on site.  
 09/07/2010: No significant change observed on site. There is a small-to medium sized Oak tree on the mid-slope just above rip rap. Some of the rip rap has collapsed, creating a pocket erosion just above the existing toe rip rap and upstream of the Oak tree.  
 08/06/2010: Recommended as local maintenance issue, per CLRO.  
 03/09/2010: As discussed with Michael Moncrief of MBK Engineer, site will be 'addressed' in 2010.  
 09/29/2009: No major change since last visit; sliding of the rip rap at the base of the lone tree; there is noticeable man-made trail and foot traffic extending from the crown to the toe; much of the broken concrete used as temporary rip rap has slid, exposing portion of the bare levee slope; recommended as local maintenance issue, per CLRO CES Evaluation 2008 Report; Site # is the same as RM31.3, LM1.45; previously rated "M".  
 11/05/2008: Portion of rip rap collapsing.  
 09/14/2006: Portion of rip rap along the slope has collapsed; exposed levee section is starting to erode, exposing roots from the nearby tree.  
 [2015 Site ID:RD2062U03RM31.28]

Photo 2 of 3 : SJR2015\_RD2062U03RM31.28\_3.jpg



A closer view of the site.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	10/14/2015 10/14/2015	Maksim Khashchuk

LM Start	<b>1.39</b>	Rating **	U	Issue No.	<b>5 (cont)</b>
LM End	<b>1.40</b>	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.821380 °	37.821380 °
				-121.376900 °	-121.376900 °
DWR ID					

**Action/Comments**

Inspector Comments: 06/25/2015: No significant change observed.  
 07/02/2014: No significant change observed.  
 08/13/2013: No significant change observed.  
 08/07/2012: The site has been visited by boat survey. No significant change observed  
 08/23/2011: No significant change observed on site.  
 09/07/2010: No significant change observed on site. There is a small-to medium sized Oak tree on the mid-slope just above rip rap. Some of the rip rap has collapsed, creating a pocket erosion just above the existing toe rip rap and upstream of the Oak tree.  
 08/06/2010: Recommended as local maintenance issue, per CLRO.  
 03/09/2010: As discussed with Michael Moncrief of MBK Engineer, site will be 'addressed' in 2010.  
 09/29/2009: No major change since last visit; sliding of the rip rap at the base of the lone tree; there is noticeable man-made trail and foot traffic extending from the crown to the toe; much of the broken concrete used as temporary rip rap has slid, exposing portion of the bare levee slope; recommended as local maintenance issue, per CLRO CES Evaluation 2008 Report; Site # is the same as RM31.3, LM1.45; previously rated "M".  
 11/05/2008: Portion of rip rap collapsing.  
 09/14/2006: Portion of rip rap along the slope has collapsed; exposed levee section is starting to erode, exposing roots from the nearby tree.  
 [2015 Site ID:RD2062U03RM31.28]

Photo 3 of 3 : SJR2015\_RD2062U03RM31.28\_7.jpg



Front view of the site.

LM Start	<b>1.50</b>	Rating **	N	Issue No.	<b>14</b>
LM End	<b>1.50</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.821388 °	37.821388 °
				-121.374947 °	-121.374947 °
DWR ID	DWR_RD2062_03_s_2012_14				

**Action/Comments**

Tree stumps.

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

### Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	10/14/2015 10/14/2015	Maksim Khashchuk

LM Start	1.66	Rating **	N	Issue No.	15
LM End	1.66	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.820890 °	37.820890 °
				-121.372227 °	-121.372227 °
DWR ID	DWR_RD2062_03_s_2012_15				
Action/Comments					
Tree stumps.					

Photo 1 of 1 : FA\_2015\_RD2062\_311\_15\_20150910\_00014.jpg



View of the tree stump on the waterside levee slope.

LM Start	1.75	Rating **	N	Issue No.	16
LM End	1.75	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.820902 °	37.820902 °
				-121.370565 °	-121.370565 °
DWR ID	DWR_RD2062_03_s_2012_16				
Action/Comments					
Tree stumps.					

No Photos

LM Start	2.51	Rating **	M	Issue No.	30
LM End	2.51	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.816930 °	37.816930
				-121.359025 °	-121.359025
DWR ID	DWR_RD2062_03_f_2015_30				
Action/Comments					

Photo 1 of 1 : FA\_2015\_RD2062\_311\_30\_20151026\_00026.jpg



View of the rodent hole on the landside levee slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

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**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	10/14/2015 10/14/2015	Maksim Khashchuk

LM Start	2.79	Rating **	N	Issue No.	22
LM End	2.79	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.816341 °	37.816341 °
				-121.354008 °	-121.354008 °
DWR ID	DWR_RD2062_03_s _ 2012_22				
Action/Comments					
Tree stumps.					

No Photos

LM Start	2.85	Rating **	N	Issue No.	23
LM End	2.85	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.816330 °	37.816330 °
				-121.352775 °	-121.352775 °
DWR ID	DWR_RD2062_03_s _ 2012_23				
Action/Comments					
Tree stumps.					

No Photos

LM Start	3.04	Rating **	N	Issue No.	25
LM End	3.04	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.817791 °	37.817791 °
				-121.350088 °	-121.350088 °
DWR ID	DWR_RD2062_03_s _ 2012_25				
Action/Comments					
Tree stumps.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015**

**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	10/14/2015 10/14/2015	Maksim Khashchuk

LM Start	3.10	Rating **	N	Issue No.	26
LM End	3.10	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.818532 °	37.818532
				-121.349510 °	-121.349510
DWR ID	DWR_RD2062_03_s _ 2012_26				
Action/Comments					
Tree stumps.					

Photo 1 of 1 : FA\_2015\_RD2062\_311\_26\_20150910\_00018.jpg



View of the tree stump on the waterside levee slope.

LM Start	3.44	Rating **	C	Issue No.	32
LM End	3.44	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.818694 °	37.818694
				-121.345124 °	-121.345124
DWR ID	DWR_RD2062_03_s _ 2015_32				
Action/Comments					
Schedule repair of erosion site prior to the next inspection.					

No Photos

LM Start	3.61	Rating **	M	Issue No.	31
LM End	3.66	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.816982 °	37.816541 °
				-121.342939 °	-121.342191 °
DWR ID	DWR_RD2062_03_s _ 2015_31				
Action/Comments					
Schedule repair of erosion site prior to the next inspection. Inspector Comments: About a 3 ft vertical cut at the levee toe into the levee prism.					

Photo 1 of 1 : FA\_2015\_RD2062\_311\_31\_20150910\_00019.jpg



View of the eroded landside levee toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Reclamation District No. 2062 Stewart**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	10/14/2015 10/14/2015	Maksim Khashchuk

LM Start	4.14	Rating **	N	Issue No.	33
LM End	4.14	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.820407 °	37.820407 °
				-121.338122 °	-121.338122 °
DWR ID	DWR_RD2062_03_s_2012_33				
Action/Comments					
Tree stumps.					

No Photos

LM Start	4.40	Rating **	A	Issue No.	29
LM End	4.40	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.818540 °	37.818540 °
				-121.334073 °	-121.334073 °
DWR ID	DWR_RD2062_03_f_2015_29				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : FA\_2015\_RD2062\_311\_29\_20151026\_00025.jpg



View of the acceptable vegetation control on the landside levee slope.

LM Start	4.75	Rating **	N	Issue No.	7
LM End	4.75	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.813986 °	37.813986 °
				-121.335821 °	-121.335821 °
DWR ID	DWR_RD2062_03_s_2012_7				
Action/Comments					
Tree stumps.					
Inspector Comments: 14" stump on landside slope.					

Photo 1 of 1 : FA\_2015\_RD2062\_311\_7\_20150910\_00006.jpg



10/21/2011 Photo taken the next day. Stump can be seen in the lower center of the photo.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2015

### Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	10/14/2015 10/14/2015	Maksim Khashchuk

LM Start	4.88	Rating **	M	Issue No.	35
LM End	4.91	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.812225 °	37.811800 °
				-121.336112 °	-121.336105 °
DWR ID	DWR_RD2062_03_f_2014_35				
Action/Comments					
Note and monitor erosion site. Inspector Comments: 2 to 3 feet vertical cut possibly caused by previous floods.					

Photo 1 of 1 : FA\_2015\_RD2062\_311\_35\_20150910\_00021.jpg



View of a 2-3 feet vertical cut at the landside levee toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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